

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 0.501381

COMPONENT MATERIAL	VENDOR/ INDUSTRY NAMES	CONSTITUENT NAME	CAS NUMBER	CONSTITUENT MASS (g)	CONSTITUENT (PPM) OF MATERIAL	CONSTITUENT (PPM) OF TOTAL PKG.		
Active Device	Linear Technology	Silicon (Si)	7440-21-3	0.004106	1000000	8189.37548828		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000171	1000000	341.057769775		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	298694.78125		
		Iron (Fe)	7439-89-6	0.003686	24000	7351.68945312		
		Phosphorus (P)	7723-14-0	0.000046	300	91.7465362549		
		Zinc (Zn)	7440-66-6	0.000108	700	215.404907227		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-95-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
Lead Frame Total:				0.153600	1000000	306353.65625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24752.1992188		
		External Plating Total:				0.012410	1000000	24752.1992188
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2449.23364258		
Internal Plating Total:				0.001228	1000000	2449.23364258		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001132	750000	2257.76245117		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000000	0	0		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000000	0	0		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000377	250000	751.922668457		
Die Attach Total:				0.001509	1000000	3009.68505859		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.044290	135000	88335.953125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.282141	860000	562727.375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001640	5000	3270.96337891		
		Encapsulation Total:				0.328071	1000000	654334.3125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000286	1000000	570.424072266		
					TOTAL MASS (g) :	0.501381		